

CLAIMS

What is claimed is:

1 1-23. (Cancelled)

1 24. (Currently Amended) A fiber optic module

2 comprising:

3 a nose receptacle including

4 a fiber optic cable receptacle to receive one
5 or more fiber optic cable plugs,

6 a lever-actuator to release the fiber optic
7 module from a cage assembly using a rotational
8 action;

9 a second actuator coupled to the lever-
10 actuator, the second actuator to release a keeper
11 from a latch to release the fiber optic module in
12 response to a rotational action on the lever-
13 actuator;

14 and

15 a printed circuit board including one or more
16 electro-optic transducers to convert optical signals into
17 electrical signals or electrical signals into optical signals.

1 25. (Original) The fiber optic module of claim 24

2 wherein,

3 the fiber optic module is a small form pluggable (SFP)
4 fiber optic module and the cage assembly is a small form
5 pluggable (SFP) cage assembly.

1 26. (Original) The fiber optic module of claim 24 further
2 comprising:

3 a housing to couple to the nose receptacle and cover the
4 printed circuit board.

1 27. (Original) The fiber optic module of claim 26
2 wherein,

3 the housing is shielded to protect the printed circuit
4 board from electromagnetic interference.

1 28. (Original) The fiber optic module of claim 24
2 wherein,

3 the lever-actuator includes one or more pins to
4 rotationally engage the nose receptacle.

1 29. (Original) The fiber optic module of claim 24
2 wherein,

3 the lever-actuator includes one or more holes to
4 rotationally engage the nose receptacle.

1 30. (Original) The fiber optic module of claim 24
2 wherein,

3 the second-actuator slides to release the fiber optic
4 module from the cage assembly.

1 31. (Original) The fiber optic module of claim 24
2 wherein,

3 the second-actuator includes

4 grooves to slideably couple the second-actuator to the
5 nose receptacle.

1 32. (Original) The fiber optic module of claim 24
2 wherein,
3 the second-actuator includes
4 rails to slideably coupled the second-actuator to the
5 nose receptacle.

1 33. (Original) The fiber optic module of claim 24
2 wherein,
3 the lever-actuator includes
4 an orientation indicator to indicate the fiber optic
5 module which the lever-actuator releases.

1 34. (Original) The fiber optic module of claim 24
2 wherein,
3 the lever-actuator includes
4 a pull-arm.

1 35. (Currently Amended) The fiber optic module of claim
2 34 wherein,
3 the pull-arm is a semi-circular ring.

1 36. (Currently Amended) The fiber optic module of claim
2 34 wherein,
3 the pull-arm is a rectangular ring.

1 37. (Currently Amended) The fiber optic module of claim

2 34 wherein,
3 the pull-arm is a tab.

1 38-54. (Cancelled)

1 55. (Original) A fiber optic module comprising:
2 means for converting optical signals into electrical
3 signals or electrical signals into optical signals; and
4 means for disengaging the fiber optic module from a cage
5 assembly by rotating a lever-actuator.

1 56. (Original) The fiber optic module of claim 55 further
2 comprising:
3 means for withdrawing the fiber optic module by pulling
4 on the lever-actuator.

1 57. (Original) The fiber optic module of claim 56 wherein
2 the means for disengaging also provides a means for
3 withdrawing.

1 58. (Original) The fiber optic module of claim 55 further
2 comprising:
3 means for pivotally disengaging the fiber optic module
4 from a cage assembly when the lever-actuator is rotated.

1 59. (Original) The fiber optic module of claim 55 further
2 comprising:
3 means for coupling the disengaging means to the fiber
4 optic module.

1 60. (Original) The fiber optic module of claim 55 further
2 comprising:

3 means for indicating the fiber optic module which the
4 disengaging means releases.

1 61. (Original) A method for disengaging and withdrawing a
2 fiber optic module from a cage assembly comprising:

3 rotating a lever-actuator to disengage the fiber optic
4 module from the cage assembly; and

5 pulling on the lever-actuator to withdraw the fiber optic
6 module from the cage assembly.

1 62. (Original) The method of claim 61 further comprising:

2 releasing the lever-actuator if the fiber optic module
3 has been released from the cage assembly.

1 63-93. (Cancelled)